

Appl. No. 10/032,310
Amdt. Dated Aug. 19, 2003
Reply to Office Action of July 29, 2003

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (previously presented): A collimating device comprising:

a Graded Index lens;

a filter; and

a tube comprising a first receiving portion and a second receiving portion, wherein the Graded Index lens is secured in the first receiving portion, and the filter is secured in the second receiving portion, a length of the first receiving portion is less than a length of the Graded Index lens and a length of the second receiving portion is equal to a corresponding length of the filter.

Claim 2 (original): The collimating device as described in claim 1, wherein the first receiving portion defines a cylindrical cavity therein, and the second receiving portion defines a generally rectangular cavity therein.

Claim 3 (original): The collimating device as described in claim 2, wherein the Graded Index lens is secured in the cylindrical cavity, and the filter is secured in the rectangular cavity.

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Claim 4 (original) The collimating device as described in claim 1, wherein the Graded Index lens has an inner end face contacting an inside surface of the filter.

Claims 5-7 (cancelled)

Claim 8 (original): The collimating device as described in claim 1, wherein the Graded Index lens has an obliquely ground and polished end disposed outside the first receiving portion of the tube.

Claim 9 (withdrawn): A method for making a collimating device, the method comprising the steps of:

- preparing a Graded Index lens, and coating the Graded Index lens with epoxy film;

- preparing a tube having a first receiving portion and a second receiving portion, and inserting the Graded Index lens into the first receiving portion;

- baking the tube with the Graded Index lens to cure the epoxy film;

- preparing a filter, inserting the filter into the second receiving portion, and adjusting a position of the filter to optically correspond to the Graded Index lens; and

- applying epoxy between a periphery of the filter and the second receiving portion, and baking the epoxy to cure the epoxy and thereby fasten the filter in the tube.

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Claim 10 (withdrawn): The method as described in claim 9, wherein the first receiving portion defines a cylindrical cavity therein, the second receiving portion defines a generally rectangular cavity therein, and the Graded Index lens and the filter are respectively secured in the cylindrical cavity and in the rectangular cavity.

Claim 10 (withdrawn): The method as described in claim 9, wherein the Graded Index lens has an inner end face contacting an inside surface of the filter.

Claims 12-13 (cancelled)

Claim 14 (previously presented): The collimating device as described in claim 3, wherein a length of the rectangular cavity is equal to a length of the filter.